**3GPP TSG-CT WG1 Meeting #134-eC1-221684**

**E-Meeting, 17th – 25th February 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **24.379** | **CR** | 787 | **rev** | 1 | **Current version:** | **17.5.0** |  |
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| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Clarify support of group calls notification on entry/exit | | | | | | | | | |
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| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCProtoc17, enhMCPTT-CT | | | | |  | ***Date:*** | | | 2022-01-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | C1-185502 specified the procedure for (de-)affiliation from a group based on the geographic location of the user, but has misplaced the specification under emergency procedures.  Besides, the exact criteria are not described and it should be clarified that the server can manage the participants in the group by taking into account additional local criteria,( e.g. activated functional alias, conditions of position, heading, etc ) while reusing the existing mechanism of notification for a user entering and exiting from the pre-defined group area. | | | | | | | | |
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| ***Summary of change:*** | | 1) Clarify that the server may consider additional criteria (e.g.as those specified in [R-6.6.4.2-002a]) for notification of entry into or exit from a group area.  2) Clause 12.1.1.4 is moved out of clause 12 (emergency) to clause 6.2.x as a common clause, as it applies to any type of group call. | | | | | | | | |
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| ***Consequences if not approved:*** | | The group area notification mechanism is limited to emergency groups. | | | | | | | | |
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| ***Clauses affected:*** | | new 6.2.x, 6.3.2.4.2, 12.1.1.4 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

1st change

#### 6.2.x Receiving notification of entry into or exit from a group geographic area

Upon receipt of a "SIP MESSAGE request for notification of entry into or exit from a group geographic area", the MCPTT client;

1) shall send a SIP 200 (OK) to the participating MCPTT function that sent the SIP MESSAGE request; and

2) if the <group-geo-area-ind> element of the application/vnd.3gpp.mcptt-info+xml MIME body is:

a) set to "true":

i) may display to the MCPTT user an indication that a group geographic area has been entered; and

ii) shall execute the procedure in clause 9.2.1.2 to affiliate to the group indicated by the participating MCPTT function; or

b) set to "false":

i) may display to the MCPTT user an indication that a group geographic area has been exited; and

ii) shall execute the procedure in clause 9.2.1.2 to de-affiliate from the group indicated by the participating MCPTT function.

2nd change

##### 6.3.2.4.2 Generating a SIP MESSAGE request for notification of entry into or exit from a group geographic area

This clause describes the procedures for generating a SIP MESSAGE request to notify an MCPTT client that it has entered a pre-defined group geographic area or exited from a pre-defined group geographic area requiring affiliation to or de-affiliation from a group. The procedure is initiated by the participating MCPTT function when the participating MCPTT function determines that the MCPTT client has entered a pre-defined group geographic area or exited from a pre-defined group geographic area.

NOTE: The participating MCPTT function can use additional implementation-specific selection criteria to decide the recipients of the notification, i.e., whether and when an entry/exit notification is sent. The additional criteria can be the activated functional alias, ongoing emergency or conditions related to position such as speed, heading etc.. The determination of the specific region is left to implementation.

The participating MCPTT function:

1) shall generate a SIP MESSAGE request in accordance with 3GPP TS 24.229 [4] and IETF RFC 3428 [33];

2) shall include an Accept-Contact header field containing the g.3gpp.mcptt media feature tag along with the "require" and "explicit" header field parameters according to IETF RFC 3841 [6];

3) shall include an Accept-Contact header field with the media feature tag g.3gpp.icsi-ref with the value of "urn:urn-7:3gpp-service.ims.icsi.mcptt" along with parameters "require" and "explicit" according to IETF RFC 3841 [6];

4) shall set the Request-URI to the public user identity associated to the MCPTT ID of the targeted MCPTT user;

5) shall include a P-Asserted-Identity header field set to the public service identity of the participating MCPTT function;

6) shall include the ICSI value "urn:urn-7:3gpp-service.ims.icsi.mcptt" (coded as specified in 3GPP TS 24.229 [4]), in a P-Asserted-Service-Id header field according to IETF RFC 6050 [9];

7) void;

8) shall include an application/vnd.3gpp.mcptt-info+xml MIME body with an <mcpttinfo> element containing the <mcptt-Params> element with:

a) an <mcptt-request-uri> element set to the value of the MCPTT ID of the targeted MCPTT user;

b) an <associated-group-id> element set to the MCPTT group ID of the group for which a pre-defined group geographic area has been entered or exited; and

c) a <group-geo-area-ind> element:

i) set to a value of "true", if the MCPTT client has entered a pre-defined group geographic area; or

ii) set to a value of "false", if the MCPTT client has exited from a pre-defined group geographic area; and

9) shall send the SIP MESSAGE request towards the MCPTT client according to the rules and procedures of 3GPP TS 24.229 [4].

Upon receiving a SIP 200 (OK) response to the SIP MESSAGE request, if the <group-geo-area-ind> element of the application/vnd.3gpp.mcptt-info+xml MIME body in the SIP MESSAGE request was:

1) set to a value of "true", shall record that the MCPTT client has received the notification that it has entered the pre-defined group geographic area; and

2) set to a value of "false", shall record that the MCPTT client has received the notification that it has exited the pre-defined group geographic area.

3rd change

12.1.1.4 Void

End of changes